

Fig. 1
PRIOR ART

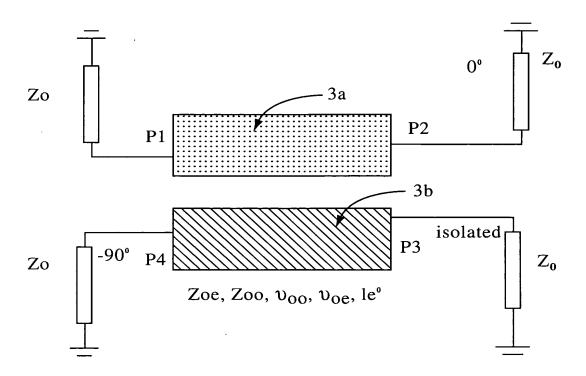
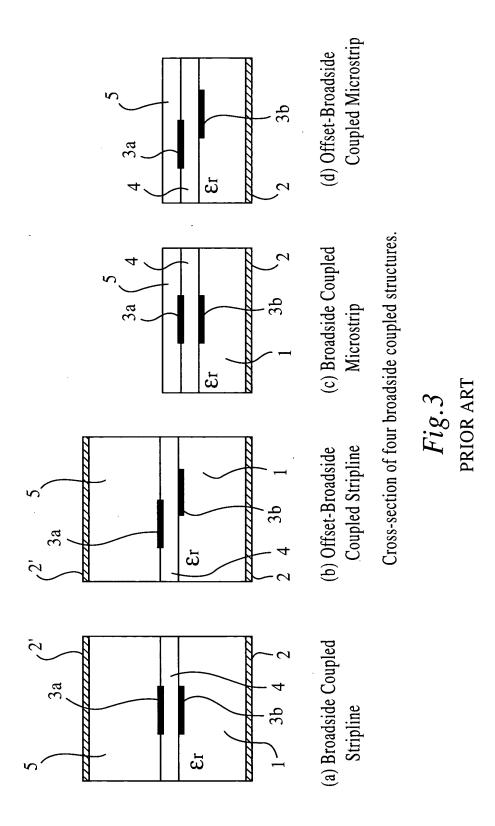
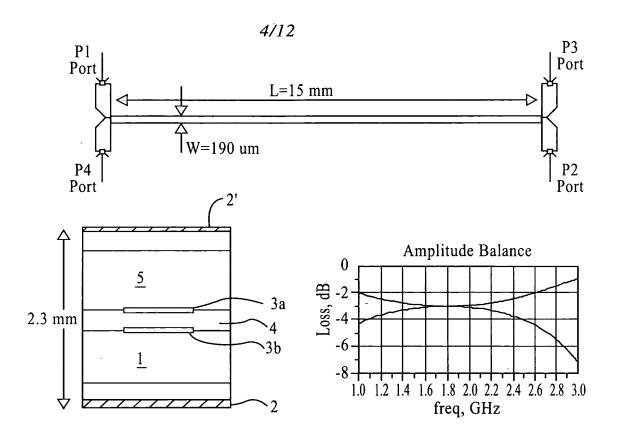
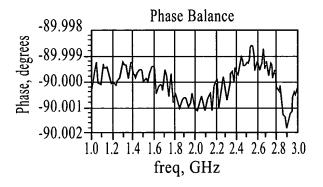


Fig.2 PRIOR ART







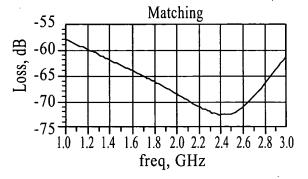


Figure 4. Conventional broadside coupled stripline coupler. Transmission line width W = 190 um; physical length L = 15 mm; substrate thickness 2.3 mm; structure designed in LTCC of Er = 7.8.

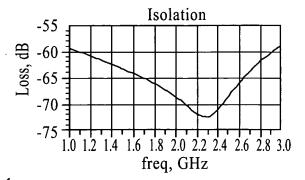


Fig.4
PRIOR ART

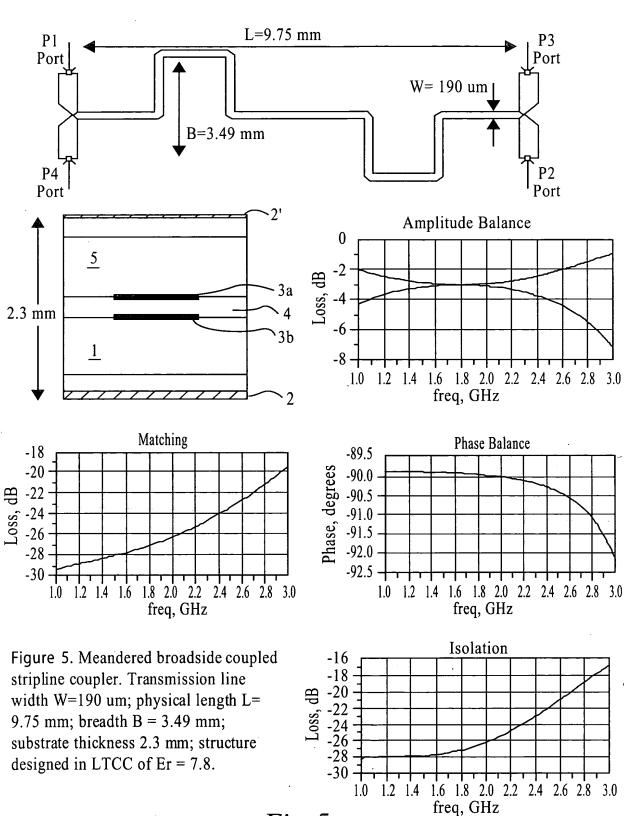
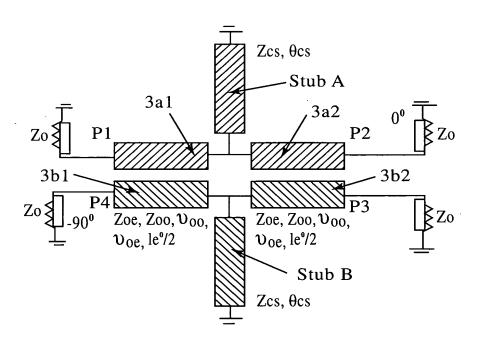


Fig.5
PRIOR ART

Fig.6



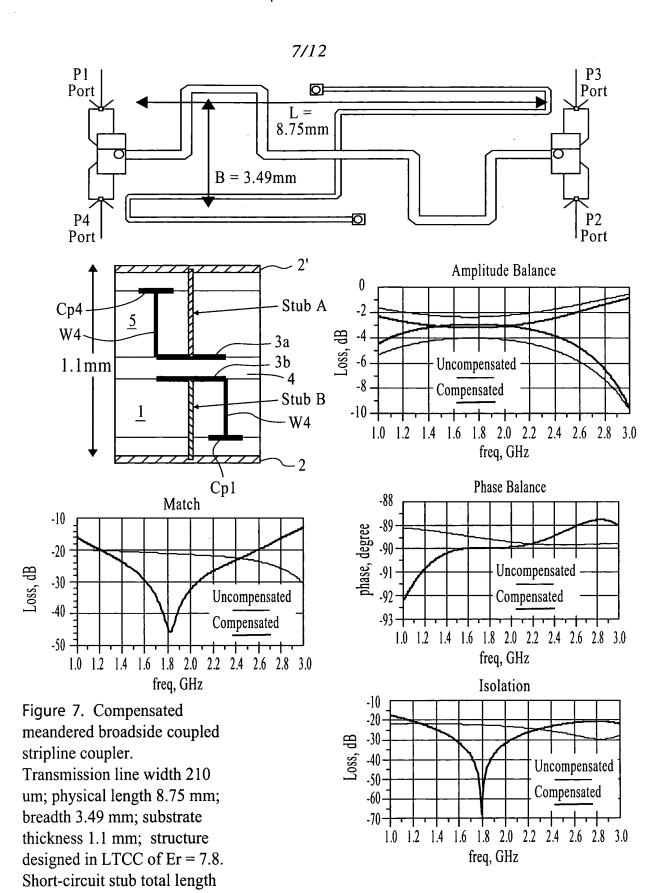


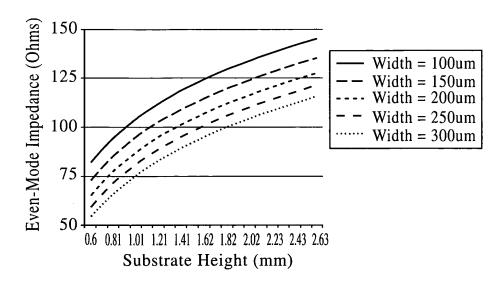
Fig.7

10 mm and width 125 um.

Capacitors of 0.42pF

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## Stripline Coupler Even-Mode Impedance



#### Microstrip Coupler Even-Mode Impedance

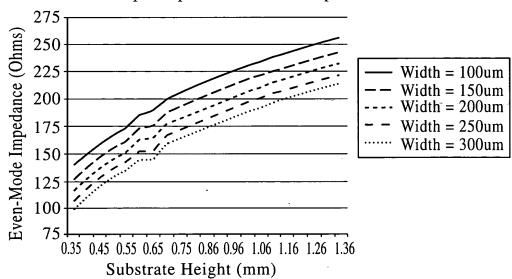


Fig.8

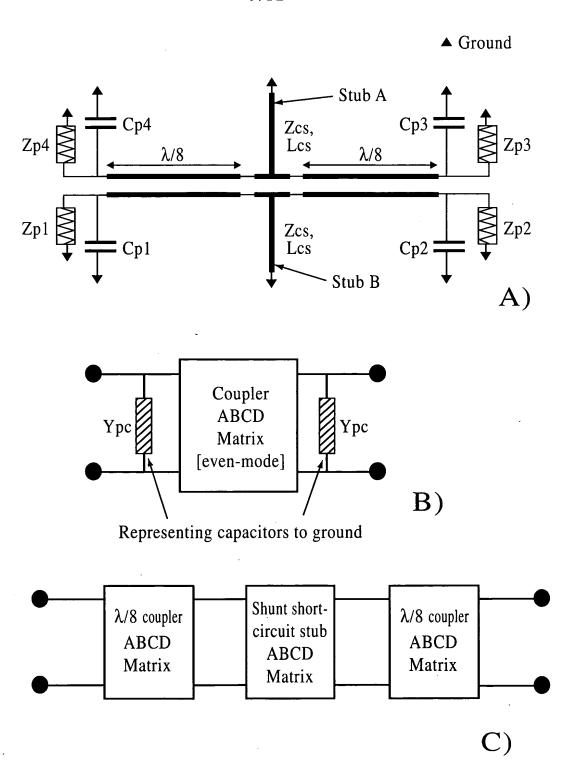
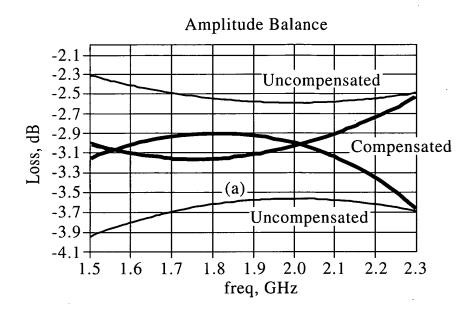


Fig.9

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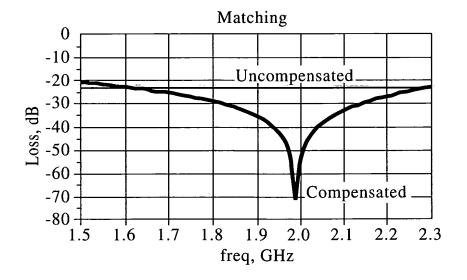


Fig. 10

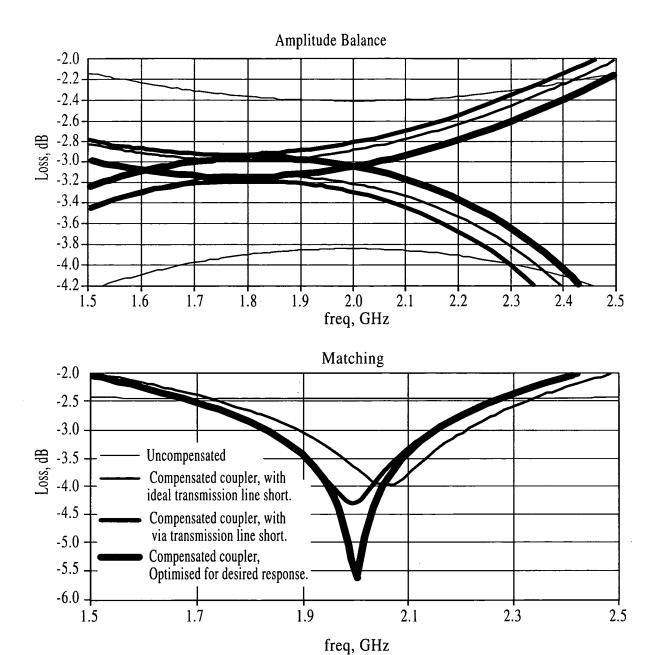


Fig. 11

